

December 8, 2005

Thomas C. Pauling, Site Manager
U.S. Department of Energy
Office of Legacy Management
2597 B3/4 Road
Grand Junction, CO 81503

SUBJECT: ANNUAL GROUND-WATER SAMPLING - SHIRLEY BASIN SOUTH SITE,
CARBON COUNTY, WYOMING (TAC LU0116)

Dear Mr. Pauling:

By letter dated October 20, 2005, the U.S. Department of Energy (DOE) forwarded to the U.S. Nuclear Regulatory Commission (NRC) staff the results of the first annual sampling event at the subject facility. In its transmittal letter, DOE stated that cadmium and radium-228 exceeded alternate concentration limits (ACLs) in wells 5-SC and 5-DC, respectively. DOE also stated that it would be collecting confirmatory samples in November 2005, weather permitting, as required in the long-term surveillance plan (LTSP). Please submit the confirmatory sampling results to the NRC staff, as soon as practicable. If the ACL exceedances are confirmed, please provide us with your proposed course of action. If you have any questions, please contact me at 301-415-7182 or by e-mail at sjc7@nrc.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/reading-rm/adams.html>.

Sincerely,

\RA\

Stephen J. Cohen, Project Manager
Uranium Processing Section
Fuel Cycle Facilities Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Docket No.: 40-6659

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